(FILE 'HOME' ENTERED AT 13:42:23 ON 08 FEB 2003)

	FILE 'REGISTRY' ENTERED AT 13:42:28 ON 08 FEB 2003
L1	5022 S CYCLOHEXANE DIMETHANOL?
L2	1 S PCCD/CN
L3	7520 S CYCLOHEXANE DICARBOXYLIC ACID?
L4	34 S L3 AND CIS AND TRANS
L5	3073 S 105-08-8/CRN
L6	54 S L5 AND (94-60-0/CRN OR 619-81-8/CRN OR 619-82-9/CRN)
L7	2 S L6 AND 2/NC
L8	2708 S L5 AND PES/PCT
L9	2424 S L8 NOT TEREPHTHALIC?
L10	2291 S L9 NOT ISOPHTHALIC?
L11	1530 S L10 AND DICARBOXYLIC?
	FILE 'CA' ENTERED AT 13:55:13 ON 08 FEB 2003
L12	51982 S POLYCARBONATE? OR C08L069?/IC
L13	4 S L12 AND L7
L14	1 S L12 AND L6 NOT L13
L15	66 S L12 AND L11 NOT (L13 OR L14)

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ER 61 OF 66 CA COPYRIGHT 2003 ACS
    103:216398 CA
ΑN
    Ionizing radiation-resistant polymer compositions
ΤI
IN
    Avakian, Roger W.
    General Electric Co., USA
PΑ
    Eur. Pat. Appl., 27 pp.
SO
    CODEN: EPXXDW
DT
    Patent
LΑ
    English
IC
    ICM C08L069-00
         C08K005-00
ICA
    A61L002-08
     37-6 (Plastics Manufacture and Processing)
CC
FAN. CNT 2
                                         APPLICATION NO.
                                                          DATE
     PATENT NO.
                     KIND DATE
                                          _____
                           _____
                           19850821
                                         EP 1985-100929
                                                          19850130
ΡI
    EP 152012
                     A2
    EP 152012
                     A3
                           19860312
        R: DE, FR, GB, IT, NL
    JP 60192759
                           19851001
                                         JP 1985-23687
                                                          19850212
                     A2
                                         US 1987-136606
    US 4874783
                      A
                           19891017
                                                          19871222
    US 4876309
                      Α
                           19891024
                                         US 1987-136682
                                                          19871222
    US 4880853
                      Α
                           19891114
                                         US 1987-136607
                                                          19871222
                          19891114
    US 4880854
                      Α
                                         US 1987-136608
                                                          19871222
                      Α
                          19891114
                                         US 1987-136609
                                                          19871222
    US 4880855
    US 4882366
                      A
                          19891121
                                         US 1987-136683
                                                          19871222
                      A
                          19891114
                                         US 1989-309050
                                                          19890207
    US 4880850
                     A 19900703
                                         US 1989-396727
                                                          19890818
    US 4939185
                                         US 1989-401533
                                                          19890830
                          19900703
    US 4939186
                     Α
                     Α
                                         US 1989-424431
                                                          19891020
    US 4996246
                          19910226
                     Α
                          19910226
                                         US 1989-424489
                                                          19891020
    US 4996248
    US 4996247
                     A 19910226
                                         US 1989-424494
                                                          19891020
                                                          19891020
                                         US 1989-425618
    US 4996244
                     A
                          19910226
                          19840210
PRAI US 1984-579103
                           19850826
    US 1985-769103
    US 1985-769277
                           19850826
    US 1987-110159
                           19871016
    US 1987-136604
                           19871222
    US 1987-136606
                           19871222
    US 1987-136607
                           19871222
    US 1987-136608
                           19871222
    US 1987-136609
                           19871222
    US 1987-136682
                           19871222
    Yellowing of arom. polycarbonates and their blends in radiation
     sterilization is suppressed by adding 0.05-2 phr stabilizer reacting
     rapidly with active species such as H or OH radicals or hydrated
     electrons. Thus, 50 parts bisphenol A polycarbonate
     [24936-68-3] was mixed with 50 parts copolyester [26124-27-6] (85:15:100
     terephthalate-isophthalate-1,4-cyclohexanedimethanol), 0.2 part Good-rite
     3125 (I) [34137-09-2], and 0.00102 part red and blue dyes. This blend,
     exposed to 5 Mrad gamma rays, had yellowing index 4.13, vs. 7.48 in the
     absence of I.
     yellowing polycarbonate radiation stabilizer; polyester
    polycarbonate blend stabilizer; blend polycarbonate
     radiation stabilizer; gamma ray polycarbonate stabilizer
IT
     Poly
```

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ER 60 OF 66 CA COPYRIGHT 2003 ACS
AN
    104:6673 CA
     Enhancing ionizing radiation resistance of normally susceptible polymers
TΙ
    Allen, Richard Brian; Avakian, Roger W.
IN
    General Electric Co., USA
PΑ
    Eur. Pat. Appl., 23 pp.
SO
    CODEN: EPXXDW
DT
    Patent
    English
LΑ
IC
    ICM C08L069-00
    ICS C08L067-02; A61L031-00; A61L029-00
ICA A61L002-08
    C08L069-00, C08L067-02; C08L067-02, C08L069-00
ICI
     37-6 (Plastics Manufacture and Processing)
     Section cross-reference(s): 63
FAN.CNT 1
     PATENT NO.
                     KIND DATE
                                          APPLICATION NO.
                                                           DATE
     -----
                           _____
                                          -----
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    EP 152825
                      A2
                           19850828
                                          EP 1985-100931
                                                           19850130
ΡI
                      A3
    EP 152825
                           19851002
                           19890517
    EP 152825
                     В1
        R: DE, FR, GB, IT, NL
     JP 60199051 A2 19851008
                                          JP 1985-23686
                                                           19850212
     JP 06035537
                      В4
                           19940511
PRAI US 1984-579102
                           19840210
    Arom. polycarbonates, poly(ester-carbonates),
    poly(sulfone-carbonates), and arom. polyesters are blended with
polyesters
    or poly(sulfone-carbonates) for improving the ionizing radiation
     resistance when molded into medical products. For example,
poly(bisphenol
    A carbonate)
                  [24936-68-3] as base resin was mixed with 20%
    poly(carbonate-sulfone) and gamma-irradiated to 5.7 Mrads. The yellowing
     index was 21.49, in comparison to 42.34 for no additive, and the slope
was
     3.7 in comparison to 7.42 for no additive, indicating less yellowing.
st
    polycarbonate polyarylate polysulfone; radiation resistance
    polymer blend
IT
    Polycarbonates
    RL: USES (Uses)
        (blends with polyesters or polysulfones, resistant to discoloration
       during sterilization by irradn.)
IT
    Discoloration prevention
        (of transparent polycarbonate moldings during sterilization
       by irradn.)
    Sterilization and Disinfection
ΙT
        (of transparent polymer moldings for medical use, by irradn.,
       discoloration in)
TT
    Plastics, molded
    RL: USES (Uses)
        (polycarbonate blends with polyesters or polysulfones,
        resistant to discoloration during sterilization by irradn.)
IT
    Polyesters, uses and miscellaneous
```

```
L15 ANSWER 32 OF 66 CA COPYRIGHT 2003 ACS
     124:318654 CA
AΝ
     Dynamic mechanical and dielectric relaxation study of aliphatic polyester
ΤI
     based blends
     Stack, Gary M.; O'Reilly, J. M.
ΑU
     East Chemical Company, Kingsport, TN, 37662, USA
CS
SO
     Polymeric Materials Science and Engineering (1993), 69, 4-5
     CODEN: PMSEDG; ISSN: 0743-0515
PB
     American Chemical Society
     Journal
DΤ
LА
     English
CC
     37-5 (Plastics Manufacture and Processing)
AB
     Mech. properties and dielec. relaxation were studied for blends of
     1,4-cyclohexanedimethanol-1,4-cyclohexanedicarboxylic acid copolymer with
     bisphenol A polycarbonate or bisphenol A-isophthaloyl
     chloride-terephthaloyl chloride copolymer.
     polyester blend mech property; dielec relaxation polyester blend;
ST
    polycarbonate polyester blend property
IT
     Dielectric relaxation
        (dynamic mech. and dielec. relaxation study of polyester-
     polycarbonate and polyester-polyester blends)
ΙT
     Polycarbonates, properties
     Polyesters, properties
     RL: POF (Polymer in formulation); PRP (Properties); USES (Uses)
        (dynamic mech. and dielec. relaxation study of polyester-
     polycarbonate and polyester-polyester blends)
IT
     Plastics
     RL: POF (Polymer in formulation); PRP (Properties); USES (Uses)
        (polycarbonate-polyester; dynamic mech. and dielec.
        relaxation study of polyester-polycarbonate and
        polyester-polyester blends)
     24936-68-3, Bisphenol A-carbonic acid copolymer, sru, properties
IT
     25037-45-0, Bisphenol A-carbonic acid copolymer 25639-68-3, Bisphenol
     A-isophthaloyl chloride-terephthaloyl chloride copolymer
                                                                29088-80-0,
     1,4-Cyclohexanedicarboxylic acid-1,4-cyclohexanedimethanol copolymer, sru
     29089-13-2, 1,4-Cyclohexanedicarboxylic acid-1,4-
                                       39281-59-9, Bisphenol A-isophthaloyl
     cyclohexanedimethanol copolymer
     chloride-terephthaloyl chloride copolymer, sru
     RL: POF (Polymer in formulation); PRP (Properties); USES (Uses)
```

(dynamic mech. and dielec. relaxation study of polyester-

polycarbonate and polyester-polyester blends)

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ANSWER 30 OF 66 CA COPYRIGHT 2003 ACS
L15
     125:115964 CA
     A free volume approach to the mechanical behavior of miscible
TI
     polycarbonate blends
     Hill, A. J.; Zipper, M. D.; Tant, M. R.; Stack, G. M.; Jordan, T. C.;
ΑU
     Shutlz, A. R.
CS
     Fac. Eng., Monash Univ., Victoria, 3168, Australia
SO
     Journal of Physics: Condensed Matter (1996), 8(21), 3811-3827
     CODEN: JCOMEL; ISSN: 0953-8984
     Institute of Physics Publishing
PR
DT
     Journal
LA
     English
     37-5 (Plastics Manufacture and Processing)
CC
     Section cross-reference(s): 36
AB
     Compn.-dependent mech. properties and free vols. are compared for
     miscible, amorphous blends of bisphenol-A polycarbonate (PC)
     with (a) polyaryloxysiloxane (PAS), (b) a copolyester of
     1,4-cyclohexanedimethanol and a mixt. of isophthalic and terephthalic
     acids (Eastar) and (c) an exptl. polyester of 1,4-cyclohexanedicarboxylic
     acid and 1,4-cyclohexanedimethanol (CDACD). The free vols. were measured
     by the positron annihilation lifetime spectroscopy (PALS) technique. The
     strength of specific interactions, as indicated by Tg data, is relatively
     weak in all of the blends. However, the fractional free vol. quantity
     measured by PALS (.tau.33I3) is less than additive in the polyester
     and is additive, or greater than additive in the PC-PAS blends.
mech.
     behavior of the blends can be rationalized in terms of the free vol.
     behavior. The polyester blends which lose free vol. (contract) on mixing
     exhibit higher than av. yield strengths and brittle impact responses.
The
     PC-PAS blends which retain or gain free vol. on mixing exhibit av. yield
     strengths and av. ductile impact responses of the constituent polymers.
ST
     mech behavior miscible polycarbonate blend; arom polyester
     polycarbonate blend property; free vol mech behavior
     polycarbonate blend; polyaryloxysiloxane polycarbonate '
     blend mech behavior
     Siloxanes and Silicones, properties
     RL: PEP (Physical, engineering or chemical process); POF (Polymer in
     formulation); PRP (Properties); PROC (Process); USES (Uses)
        (biphenylene, polycarbonate blends; compn.-dependent mech.
        properties and free vols. in miscible polycarbonate blends)
IT
     Glass temperature and transition
        (compn.-dependent mech. properties and free vols. in miscible
     polycarbonate blends)
ΙT
     Polycarbonates, properties
     RL: PEP (Physical, engineering or chemical process); POF (Polymer in
     formulation); PRP (Properties); PROC (Process); USES (Uses)
        (compn.-dependent mech. properties and free vols. in miscible
     polycarbonate blends)
ΙT
     Plastics
     RL: PEP (Physical, engineering or chemical process); POF (Polymer in
     formulation); PRP (Properties); PROC (Process); USES (Uses)
        (polycarbonate blends with polyesters and
        polyaryloxysiloxanes; compn.-dependent mech. properties and free vols.
        in miscible polycarbonate blends)
IT
     Polyesters, properties
     RL: PEP (Physical, engineering or chemical process); POF (Polymer in
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formulation); PRP (Properties); PROC (Process); USES (Uses)
        (polycarbonate blends; compn.-dependent mech. properties and
        free vols. in miscible polycarbonate blends)
IT
     Polyesters, properties
     RL: PEP (Physical, engineering or chemical process); POF (Polymer in
     formulation); PRP (Properties); PROC (Process); USES (Uses)
        (arom., polycarbonate blends; compn.-dependent mech.
        properties and free vols. in miscible polycarbonate blends)
ΙT
     Volume
        (free, compn.-dependent mech. properties and free vols. in miscible
     polycarbonate blends)
     24936-68-3, Bisphenol A polycarbonate, properties
ΙT
     RL: PEP (Physical, engineering or chemical process); POF (Polymer in
     formulation); PRP (Properties); PROC (Process); USES (Uses)
        (Makrolon 2608 and Lexan 141; compn.-dependent mech. properties and
        free vols. in miscible polycarbonate blends)
ΙT
     25037-45-0
    RL: PEP (Physical, engineering or chemical process); POF (Polymer in
     formulation); PRP (Properties); PROC (Process); USES (Uses)
        (compn.-dependent mech. properties and free vols. in miscible
     polycarbonate blends)
     26124-27-6, 1,4-Cyclohexanedimethanol-isophthalic acid-terephthalic acid
IT
     copolymer
                29088-80-0, 1,4-Cyclohexanedimethanol-1,4-
     cyclohexanedicarboxylic acid copolymer, sru 29089-13-2,
     1,4-Cyclohexanedimethanol-1,4-cyclohexanedicarboxylic acid copolymer
     51910-62-4, 1,4-Cyclohexanedimethanol-isophthalic acid-terephthalic acid
     copolymer, sru
                     139321-71-4
     RL: PEP (Physical, engineering or chemical process); POF (Polymer in
     formulation); PRP (Properties); PROC (Process); USES (Uses)
        (polycarbonate blends; compn.-dependent mech. properties and
        free vols. in miscible polycarbonate blends)
```